

ABSTRACT

Method and System for Utilization of an Outer Decoder in a Broadcast Services Communication System is described. Information to be transmitted is provided to a systematic portion of a plurality of transmit buffers and encoded by an outer decoder communicatively coupled to the transmit buffer. The resulting redundant bits are provided to a parity portion of each transmit buffer. The content of the transmit buffers, is multiplexed and encoded by an inner decoder to improve protection by adding redundancy. The receiving station recovers the transmitted information by an inverse process. Because a decoding complexity depends on the size of a systematic portion of the transmit buffer, reasoned compromise between a systematic portion size and number of transmit buffers yields decreased decoding complexity.

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